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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/075,670   | 02/13/2002  | Peter Eisele         | A-3172              | 2676             |
| 24131  | 7590        | 09/30/2005           | EXAMINER            |                  |
| LERNER AND GREENBERG, PA<br>P O BOX 2480<br>HOLLYWOOD, FL 33022-2480 |             |                      | RAHIMI, IRAJ A      |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2622                |                  |

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/075,670

Applicant(s)

EISELE, PETER

Examiner

(Iraj) Alan Rahimi

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.


**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on February 13, 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☒ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

  
TWYLER LAMB  
PRIMARY EXAMINER

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2/13/02, 5/1/02.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Oath/Declaration***

1. Although applicant indicated, on papers filed on March 25, 2002, supplying the signed Declaration/Oath, Image File Wrapper does not show its existence. Applicant is requested to kindly supply the signed oath again.

### ***Information Disclosure Statement***

2. Since the English translation of non-patent literature listed on IDS dated May 10, 2002, was not provided, this reference was not considered.

### ***Specification***

3. Specification does not define what DMA in "DMA controller" stand for.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Notredame et al. (US patent 6,049,390).

Art Unit: 2622

Regarding claim 1, Notredame discloses a raster generation system for image-setting unit, comprising:

a printing machine with an at least one raster processor for generating raster data from raw image data (Fig. 10, RIP system 1009); and

a memory for storing the raster data, said memory formed by a raster memory with random access (page element cache 1011);

said raster processor storing the raster data column by column in said raster memory (column 35, lines 48-67).

Regarding claim 7, Notredame discloses a method of processing raster data for an image-setting unit of a printing machine, which comprises:

generating raster data line by line from raw image data (column 35, lines 48-67);

storing the raster data column by column in a raster memory with random access (column 35, lines 48-67); and

reading out the raster data column by column into an image-setting unit (printing device 1019).

Regarding claim 8, Notredame discloses the method according to claim 7, which comprises:

using a DMA controller (processor 112) to control the step of reading out the raster data; and

buffering the raster data that has been read out in a buffer memory (page element store 1013.

*Claim Rejections - 35 USC § 103*

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Notredame et al. (US patent 6049390) in view of Agarwal (US patent application publication 2001/0022815).

Regarding claim 6, Notredame et al. does not disclose the raster generation system according to claim 1, comprising a first plug-in interface board, said raster memory and said raster processor disposed on said first plug-in interface board.

Agarwal discloses in paragraph 36 a pixel processor 106 (same as raster processor) and memory device 112 on a plug-in board.

Notredame and Agarwal are combinable because they are from the same field of endeavor that is image reproduction.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have the memory and processor on a plug-in board.

The suggestion/motivation for doing so would have been to make the expansion and repair of the image device quicker.

Art Unit: 2622

Therefore, it would have been obvious to combine Notredame and Agarwall to obtain the invention as specified in claim 2.

Regarding claim 3, Notredame discloses the raster generation system according to claim 2, comprising:

an image-setting unit (printing device 1019); and

a DMA controller (processor 112) for controlling a transfer of raster data the from said raster memory to said image-setting unit .

Regarding claim 4, arguments analogous to those presented for claim 3, are presented.

Regarding claim 5, Notredame discloses the raster generation system according to claim 4, comprising:

a buffer memory page element 1013;

said DMA controller (processor 112) providing an output;

said buffer memory buffering said output of said DMA controller (Fig. 10).

Regarding claim 6, arguments analogous to those presented for claim 2, are presented.

#### ***Other Prior Art Cited***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2622

Collmeyer et al. (US patent 4,491,836) discloses a DMA controller.


Govaert et al. (US patent 5,858,589) discloses error diffusion along a line by line and column by column scan.


***Contact Information***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraq) Alan Rahimi whose telephone number is 571-272-7411. The examiner can normally be reached on Mon.-Fri. 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Alan Rahimi  
September 28, 2005

  
TWYLER LAMB  
PRIMARY EXAMINER